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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hasse, et al.) Group Art Unit Unknown
Appl. No. : 10/018,290)
Filed : November 13, 2001)
For : LAWSONIA DERIVED GENE)
AND RELATED OMPH)
POLYPEPTIDES, PEPTIDES,)
AND PROTEINS AND THERI)
USES)
Examiner : Unknown _____

JB
10/31/02

RESPONSE TO MISSING REQUIREMENTS
AND
SUPPLEMENTAL PRELIMINARY AMENDMENT

United States Patent and Trademark Office
PO Box 2327
Arlington, VA 22202

Dear Sir:

In response to the missing requirements mailed from the Patent and Trademark Office on February 11, 2002, and preliminary to examination on the merits, please amend the above-captioned patent application as follows:

IN THE SPECIFICATION

On page 8, third complete paragraph, lines 15-24, please replace the figure legend for Figure 3 with the following:

--Figure 3 is a schematic representation of an amino acid sequence alignment of various bacterial outer membrane H proteins. Amino acid sequences of OmpH from *Lawsonia intracellularis* (L.int) SEQ ID NO:1, *Yersinia pseudotuberculosis* (Y. pseud) SEQ ID NO:5, *Yersinia enterocolitica* (Y. enter) SEQ ID NO:6, *Haemophilus influenzae* (H. influ) SEQ ID